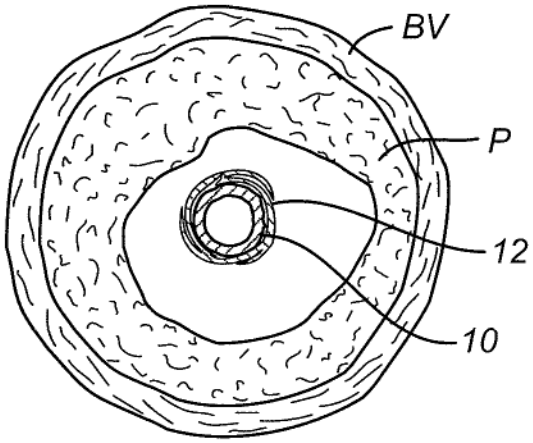


FIG. 1A
(PRIOR ART)

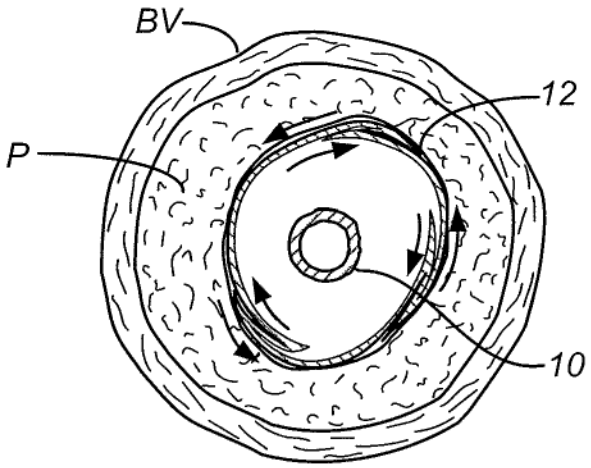


FIG. 1B
(PRIOR ART)

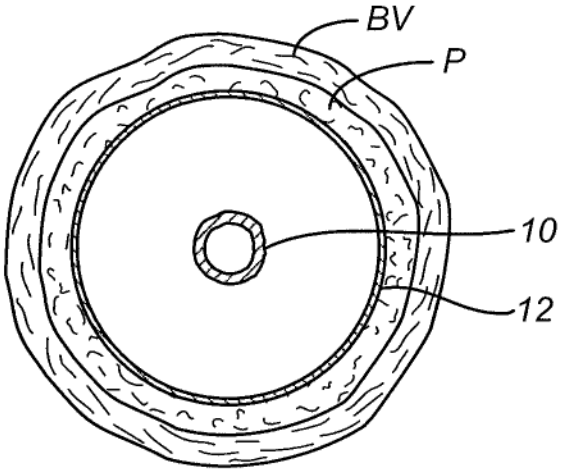


FIG. 1C
(PRIOR ART)

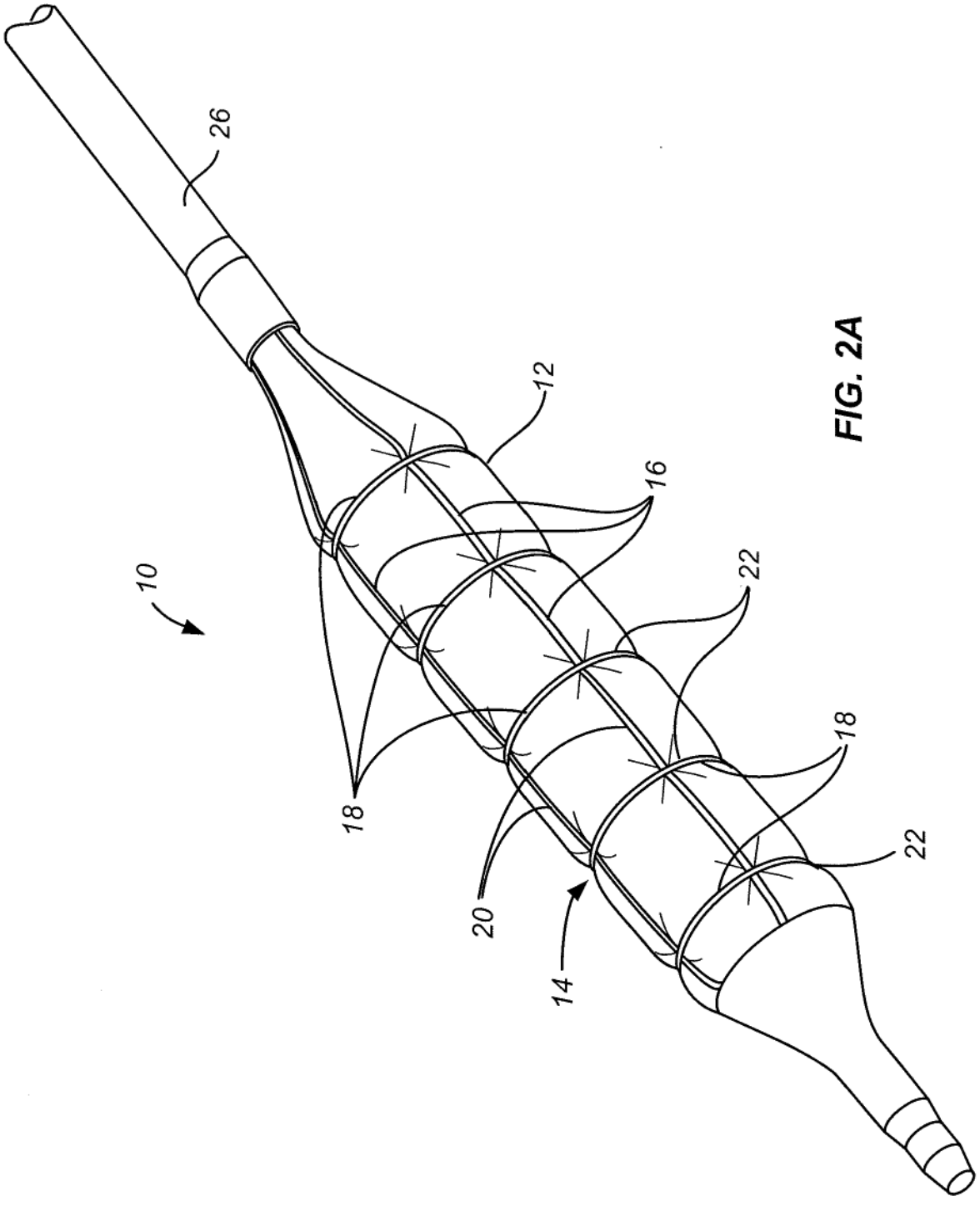


FIG. 2A

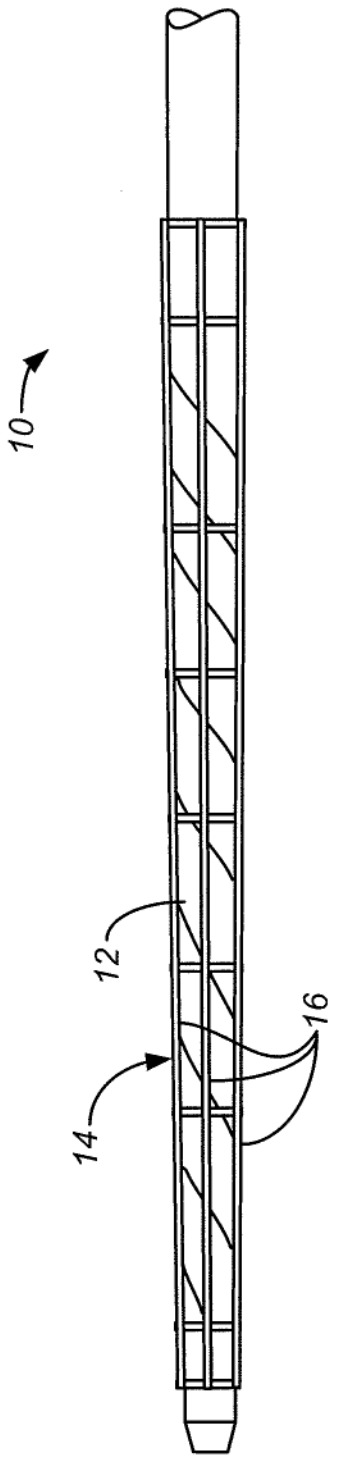


FIG. 2B1

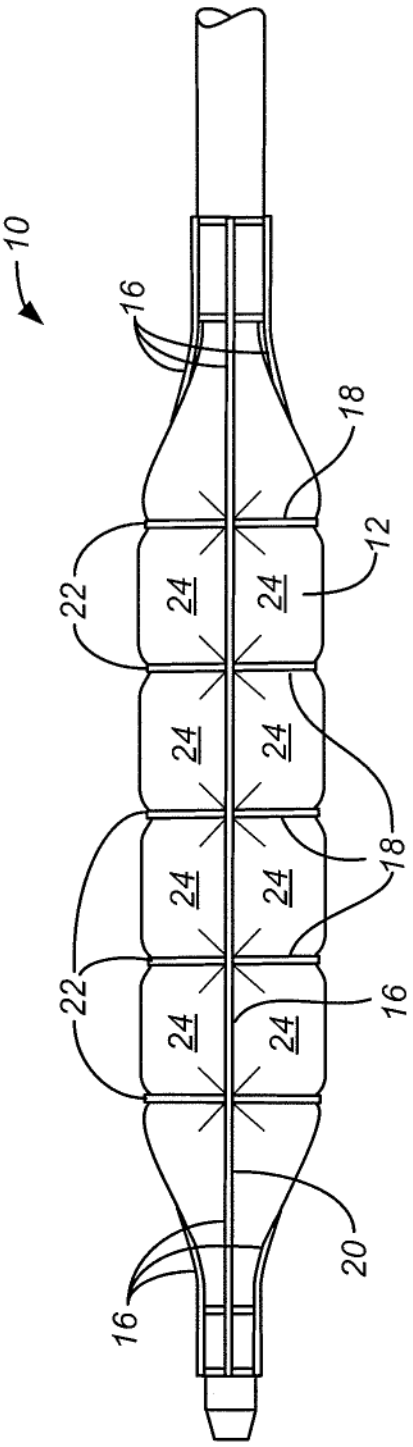


FIG. 2B2

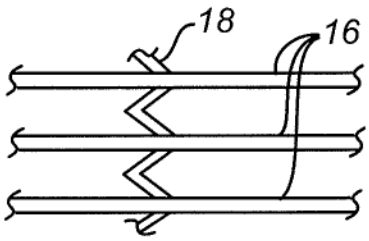


FIG. 3A

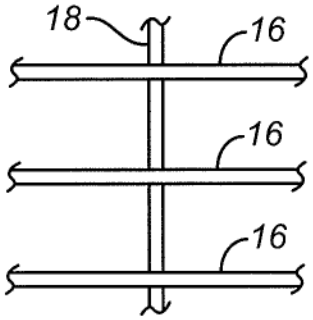


FIG. 3B

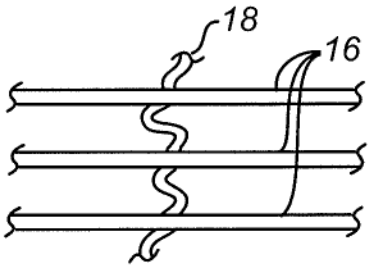


FIG. 4A

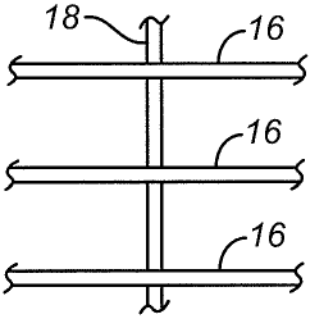


FIG. 4B

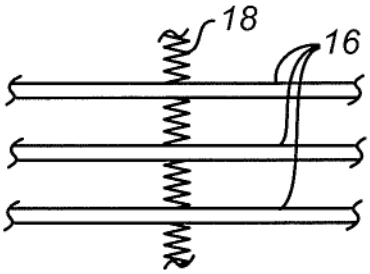


FIG. 5A

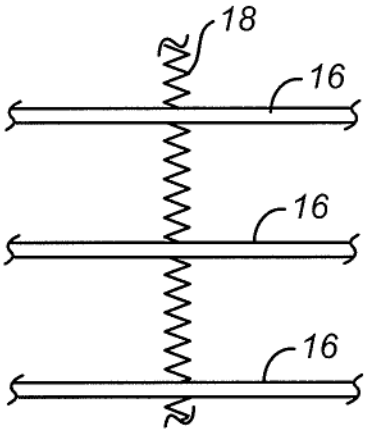


FIG. 5B

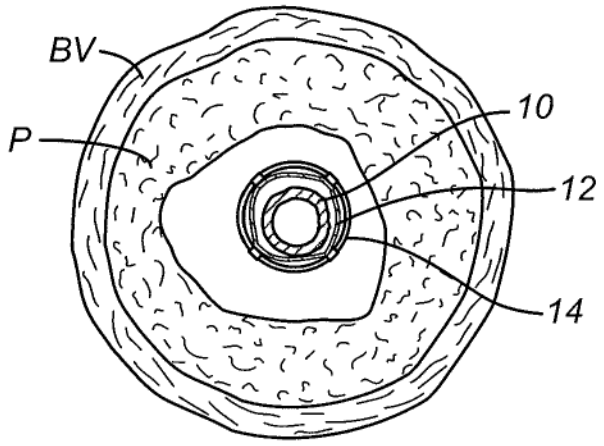


FIG. 6A

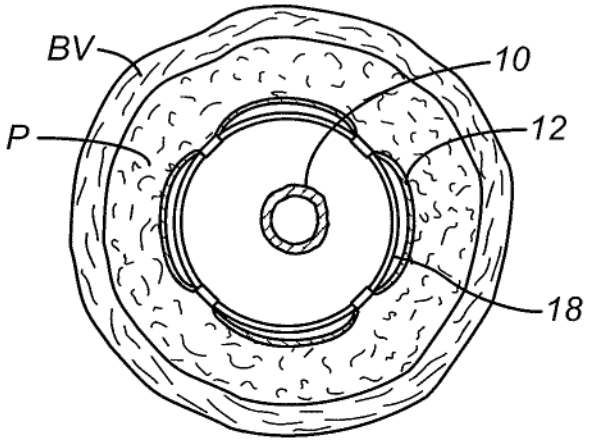


FIG. 6B

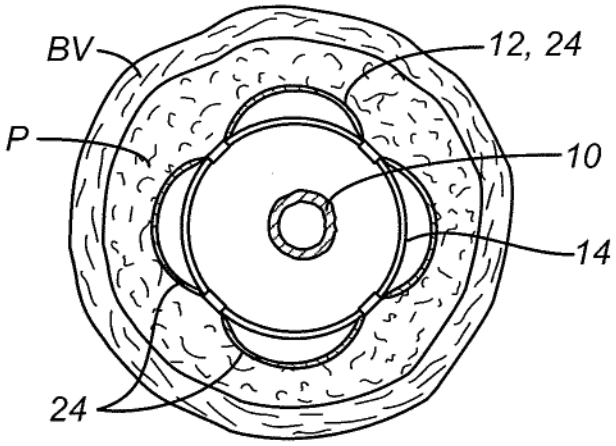


FIG. 6C

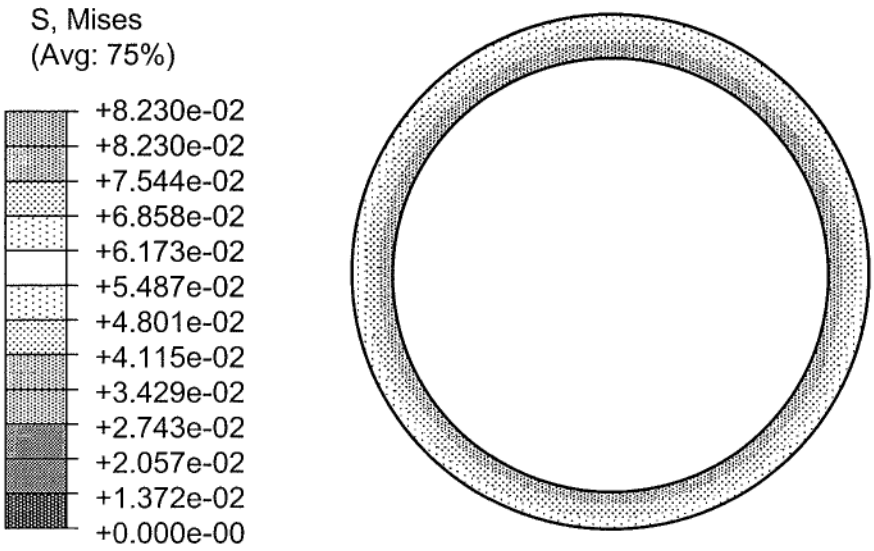

S, Mises
(Avg: 75%)
+8.230e-02
+8.230e-02
+7.544e-02
+6.858e-02
+6.173e-02
+5.487e-02
+4.801e-02
+4.115e-02
+3.429e-02
+2.743e-02
+2.057e-02
+1.372e-02
+0.000e-00
Y
|
Z—X
ODB: Circular.odb Abaqus/Standard Version 6.8-1
Step: Outward
Increment 1: Step Time= 1.000
Primary Var: S, Mises
Deformed Var: U Deformation Scale Factor: +1.0

FIG. 7A

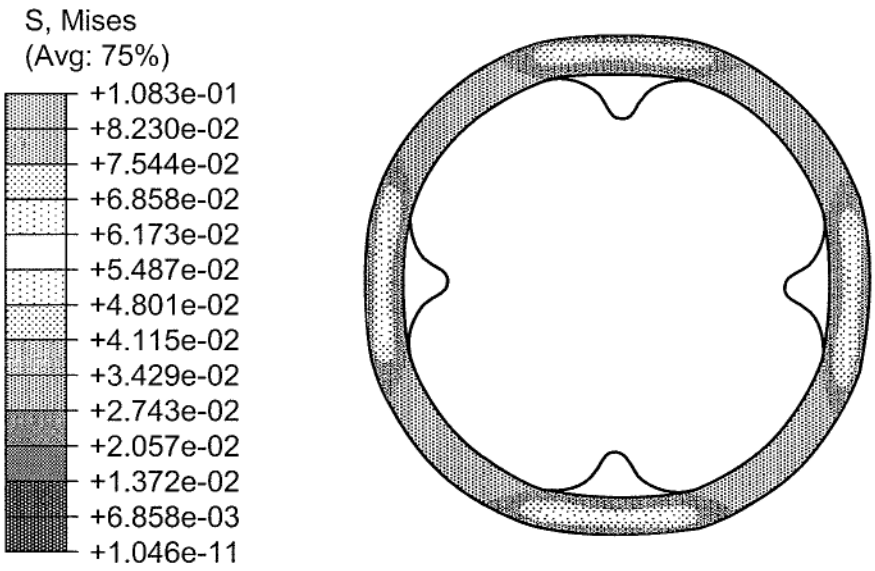

S, Mises
(Avg: 75%)
+1.083e-01
+8.230e-02
+7.544e-02
+6.858e-02
+6.173e-02
+5.487e-02
+4.801e-02
+4.115e-02
+3.429e-02
+2.743e-02
+2.057e-02
+1.372e-02
+6.858e-03
+1.046e-11
Y
|
Z—X
ODB: FEA01.odb Abaqus/Standard Version 6.8-1
Step: Outward
Increment 4: Step Time= 1.000
Primary Var: S, Mises
Deformed Var: U Deformation Scale Factor: +1.0

FIG. 7B